

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing Of Claims

1-7. (cancelled)

8. (previously presented) A compound according to claim 38, wherein Z is selected from the group consisting of $-\text{CH}_2-$, $-\text{CH}_2\text{CH}_2-$, $-\text{CH}_2\text{CH}_2\text{CH}_2-$, $-\text{C}(\text{O})-$, $-\text{CH}_2\text{C}(\text{O})-$, $-\text{C}(\text{O})\text{CH}_2-$, $-\text{CH}_2-\text{C}(\text{O})\text{CH}_2-$, $-\text{C}(\text{O})\text{CH}_2\text{CH}_2-$, $-\text{CH}_2\text{CH}_2\text{C}(\text{O})-$, $-\text{O}-$, $-\text{OCH}_2-$, $-\text{CH}_2\text{O}-$, $-\text{CH}_2\text{OCH}_2-$, $-\text{OCH}_2\text{CH}_2-$, $-\text{CH}_2\text{CH}_2\text{O}-$, $-\text{N}(\text{CH}_3)-$, $-\text{NHCH}_2-$, $-\text{CH}_2\text{NH}-$, $-\text{CH}_2\text{NHCH}_2-$, $-\text{NHCH}_2\text{CH}_2-$, $-\text{CH}_2\text{CH}_2\text{NH}-$, $-\text{NH}-\text{C}(\text{O})-$, $-\text{NCH}_3-\text{C}(\text{O})-$, $-\text{C}(\text{O})\text{NH}-$, $-\text{C}(\text{O})\text{NCH}_3-$, $-\text{NHC}(\text{O})\text{CH}_2-$, $-\text{C}(\text{O})\text{NHCH}_2-$, $-\text{C}(\text{O})\text{CH}_2\text{NH}-$, $-\text{CH}_2\text{NHC}(\text{O})-$, $-\text{CH}_2\text{C}(\text{O})\text{NH}-$, $-\text{NHCH}_2\text{C}(\text{O})-$, $-\text{S}-$, $-\text{SCH}_2-$, $-\text{CH}_2\text{S}-$, $-\text{SCH}_2\text{CH}_2-$, $-\text{CH}_2\text{SCH}_2-$, $-\text{CH}_2\text{CH}_2\text{S}-$, $-\text{C}(\text{O})\text{S}-$, $-\text{C}(\text{O})\text{SCH}_2-$, $-\text{CH}_2\text{C}(\text{O})\text{S}-$, $-\text{C}(\text{O})\text{CH}_2\text{S}-$, and $-\text{CH}_2\text{SC}(\text{O})-$, each substituted or unsubstituted.

9. (previously presented) A compound according to claim 38, wherein Z is selected from the group consisting of $-\text{CH}_2-$, $-\text{CHR}_9-$, $-\text{C}(\text{R}_9)(\text{R}_9)-$, $-\text{C}(\text{O})-$, $-\text{C}(\text{S})-$, $-\text{C}(\text{NH})-$, $-\text{C}(\text{NR}_9)-$, $-\text{O}-$, $-\text{N}(\text{H})-$, $-\text{N}(\text{R}_9)-$, and $-\text{S}-$.

10. (previously presented) A compound according to claim 38, wherein R_m is a substituted (C_{3-7}) cycloalkyl.

11. (previously presented) A compound according to claim 38, wherein R_m is a substituted aryl.

12. (previously presented) A compound according to claim 38, wherein R_m is a substituted phenyl.

13. (previously presented) A compound according to claim 38, wherein R_m is selected from the group consisting of (2-cyano)phenyl, (3-cyano)phenyl, (2-hydroxy)phenyl, (3-hydroxy)phenyl, (2-alkenyl)phenyl, (3-alkenyl)phenyl, (2-alkynyl)phenyl, (3-alkynyl)phenyl, (2-nitro)phenyl, (3-nitro)phenyl, (2-carboxy)phenyl, (3-carboxy)phenyl, (2-carboxamido)phenyl, (3-carboxamido)phenyl, (2-sulfonamido)phenyl, (3-sulfonamido)phenyl, (2-tetrazolyl)phenyl, (3-tetrazolyl)phenyl, (2-aminomethyl)phenyl, (3-aminomethyl)phenyl, (2-amino)phenyl, (3-amino)phenyl, (2-hydroxymethyl)phenyl, (3-hydroxymethyl)phenyl, (2-phenyl)phenyl, (3-phenyl)phenyl, (2-CONH₂)phenyl, (3-CONH₂)phenyl, (2-CONH(C₁₋₇)alkyl)phenyl, (3-CONH(C₁₋₇)alkyl)phenyl, (2-CO₂(C₁₋₇)alkyl)phenyl, and (3-CO₂(C₁₋₇)alkyl)phenyl, each substituted or unsubstituted.

14. (previously presented) A compound according to claim 38, wherein R_1 is -OR₁₁, where R_{11} is selected from the group consisting of substituted or unsubstituted alkyl, cycloalkyl, aryl, heteroaryl, heterocycloalkyl, arylalkyl, heteroarylalkyl, bicycloaryl, and heterobicycloaryl.

15. (previously presented) A compound according to claim 38, wherein Z is a carbonyl.

16. (previously presented) A compound according to claim 38, wherein R_1 is selected from the group consisting of -(CH₂)-(2-cyano)phenyl, -(CH₂)-(3-cyano)phenyl, -(CH₂)-(2-hydroxy)phenyl, -(CH₂)-(3-hydroxy)phenyl, -(CH₂)-(2-alkenyl)phenyl, -(CH₂)-(3-alkenyl)phenyl, -(CH₂)-(2-alkynyl)phenyl, -(CH₂)-(3-alkynyl)phenyl, -(CH₂)-(2-nitro)phenyl, -(CH₂)-(3-nitro)phenyl, -(CH₂)-(2-carboxy)phenyl, -(CH₂)-(3-carboxy)phenyl, -(CH₂)-(2-carboxamido)phenyl, -(CH₂)-(3-carboxamido)phenyl, -(CH₂)-(2-sulfonamido)phenyl, -(CH₂)-(3-sulfonamido)phenyl, -(CH₂)-(2-tetrazolyl)phenyl, -(CH₂)-(3-tetrazolyl)phenyl, -(CH₂)-(2-aminomethyl)phenyl, -(CH₂)-(3-aminomethyl)phenyl, -(CH₂)-(2-amino)phenyl, -(CH₂)-(3-amino)phenyl, -(CH₂)-(2-hydroxymethyl)phenyl, -(CH₂)-(3-hydroxymethyl)phenyl, -(CH₂)-(2-phenyl)phenyl, -(CH₂)-(3-phenyl)phenyl, -(CH₂)-(2-CONH₂)phenyl, -(CH₂)-(3-CONH₂)phenyl, -(CH₂)-(2-CONH(C₁₋₇)alkyl)phenyl, -(CH₂)-(3-CONH(C₁₋₇)alkyl)phenyl, -(CH₂)-(2-CO₂(C₁₋₇)alkyl)phenyl, -(CH₂)-(3-CO₂(C₁₋₇)alkyl)phenyl, -CH₂-(C₃₋₇)cycloalkyl, and -CH₂-aryl, each substituted or unsubstituted.

17. (previously presented) A compound according to claim 38, wherein R_1 is selected from the group consisting of $-(C_1)$ alkyl-aryl, $-(C_1)$ alkyl-bicycloaryl, -aminoaryl, -aminoheteroaryl, -aminobicycloaryl, -aminoheterobicycloaryl, -O-aryl, -O-heteroaryl, -O-bicycloaryl, -O-heterobicycloaryl, -(S)-aryl, -(S)-heteroaryl, -(S)-bicycloaryl, -S-heterobicycloaryl, -C(O)-aryl, -C(O)-heteroaryl, -C(O)-bicycloaryl, -C(O)-heterobicycloaryl, -C(S)-aryl, -C(S)-heteroaryl, -C(S)-bicycloaryl, -C(S)-heterobicycloaryl, -S(O)-aryl, -S(O)-heteroaryl, -S(O)-bicycloaryl, -SO₂-heterobicycloaryl, -SO₂-aryl, -SO₂-heteroaryl, -SO₂-bicycloaryl, -SO₂-heterobicycloaryl, -C(NR₉)-aryl, -C(NR₉)-heteroaryl, -C(NR₉)-bicycloaryl, -C(NR₉)-heterobicycloaryl, each substituted or unsubstituted.

18. (cancelled)

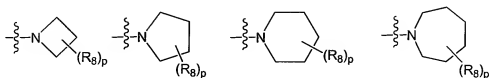
19. (previously presented) A compound according to claim 38, wherein R_2 is a substituted or unsubstituted 4, 5, 6, or 7 membered heterocycloalkyl.

20. (cancelled)

21. (cancelled)

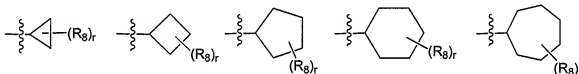
22. (previously presented) A compound according to claim 38, wherein R_2 is a substituted or unsubstituted heteroaryl.

23. (currently amended) A compound according to claim 38, wherein R_2 is selected from the group consisting of



wherein p is 0-12 and each R₈ is independently selected from the group consisting of halo, perhalo(C₁₋₁₀)alkyl, CF₃, cyano, nitro, hydroxy, alkyl, aryl, heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryloxy, heteroaryloxy, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, amino, thio, alkoxy, ~~carbonyl group~~, imino group, sulfonyl group and sulfinyl group, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones, each substituted or unsubstituted.

24. (currently amended) A compound according to claim 38, wherein R₂ is selected from the group consisting of



wherein r is 0-13 and each R₈ is independently selected from the group consisting of halo, perhalo(C₁₋₁₀)alkyl, CF₃, cyano, nitro, hydroxy, alkyl, aryl, heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryloxy, heteroaryloxy, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, amino, thio, alkoxy, ~~carbonyl group~~, imino group, sulfonyl group and sulfinyl group, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones, each substituted or unsubstituted.

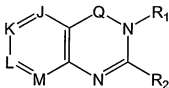
25. (previously presented) A compound according to claim 38, wherein R₂ is a substituted or unsubstituted heteroaryl selected from the group consisting of pyrrole, pyrazole, triazole, isoxazole, oxazole, thiazole, isothiazole, oxadiazole, pyridine, pyridazine, pyrimidine, pyrazine, triazine, imidazole, benzimidazole, indole, isoindole, quinoline, isoquinoline, cinnoline, quinoxaline, naphthyridine, pyridopyridine, quinoxaline, phthalazine, and benzothiazole, each substituted or unsubstituted.

26. (cancelled)

27. (previously presented) A compound according to claim 38, wherein R₂ is a substituted or unsubstituted (C₃₋₇)cycloalkyl ring, optionally comprising O, N(O), N, S, SO, SO₂ or a carbonyl group in the ring.

28-37. (cancelled)

38. (currently amended) A compound comprising Formula XI:



XI

wherein

Q is selected from the group consisting of CO, CS or C=NR₉;

J, K, L, and M are each independently CR₁₂;

R₁ is -ZR_m;

Z is selected from the group consisting of -CH₂-, -CH₂CH₂-, -CH₂CH₂CH₂-, -C(O)-, -CH₂C(O)-, -C(O)CH₂-, -CH₂-C(O)CH₂-, -C(O)CH₂CH₂-, -CH₂CH₂C(O)-, -O-, -OCH₂-, -CH₂O-, -CH₂OCH₂-, -OCH₂CH₂-, -CH₂CH₂O-, -N(CH₃)-, -NHCH₂-, -CH₂NH-, -CH₂NHCH₂-, -NHCH₂CH₂-, -CH₂CH₂NH-, -NH-C(O)-, -NCH₃-C(O)-, -C(O)NH-, -C(O)NCH₃-, -NHC(O)CH₂-, -C(O)NHCH₂-, -C(O)CH₂NH-, -CH₂NHC(O)-, -CH₂C(O)NH-, -NHCH₂C(O)-, -S-, -SCH₂-, -CH₂S-, -SCH₂CH₂-, -CH₂SCH₂-, -CH₂CH₂S-, -C(O)S-, -C(O)SCH₂-, -CH₂C(O)S-, -C(O)CH₂S-, -CH₂SC(O)-, -CHR₉-, -C(R₉)(R₉)-, -C(S)-, -C(NH)-, -C(NR₉)-, -N(H)- and -N(R₉)-

R_m is selected from the group consisting of a (C₃₋₇)cycloalkyl, aryl, hetero(C₃₋₇)cycloalkyl and heteroaryl, each having at least one non-hydrogen substituent at a 2 or 3 position of the ring selected from the group consisting of (C₁₋₁₀)alkyl, (C₃₋₁₂)cycloalkyl, hetero(C₃₋₁₂)cycloalkyl, aryl(C₁₋₁₀)alkyl, heteroaryl(C₁₋₅)alkyl, (C₉₋₁₂)bicycloaryl, hetero(C₄₋₁₂)bicycloaryl, carbonyl (C₁₋₃)alkyl, thiocarbonyl (C₁₋₃)alkyl, sulfonyl (C₁₋₃)alkyl, sulfinyl (C₁₋₃)alkyl, imino (C₁₋₃)alkyl, amino, aryl, heteroaryl, hydroxy, alkoxy, aryloxy, heteroaryloxy, carbonyl group, cyano, nitro,

halo, imino group, sulfonyl group and sulfinyl group, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones;

R₂ is selected from the group consisting of a 4, 5, 6 or 7 membered cycloalkyl or N-containing ring, the ring being substituted with one or more substituents selected from the group consisting of ~~ahieyelie-, aliphatic-,~~ alkyl, heteroalkyl, alkylene, alkylidene, amino, aminoalkyl, aromatic, aryl, bicycloalkyl, bicycloaryl, carbamoyl, carbocyclyl, carboxyl, ~~earbenyl group,~~ cycloalkyl, cycloalkylene, halo, heterobicycloalkyl, heterocycloalkylene, heteroaryl, heterobicycloaryl, heterocycloalkyl, hydroxy, nitro, oxaalkyl, and oxoalkyl moieties, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones;

each R₉ is hydrogen or is selected from the group consisting of alkyl, cycloalkyl, heterocycloalkyl, arylalkyl, heteroarylalkyl, bicycloaryl, and heterobicycloaryl, each being unsubstituted or substituted with one or more substituents selected from the group consisting of ~~ahieyelie-, aliphatic-,~~ alkyl, heteroalkyl, alkylene, alkylidene, amino, aminoalkyl, aromatic, aryl, bicycloalkyl, bicycloaryl, carbamoyl, carbocyclyl, carboxyl, ~~earbenyl group,~~ cycloalkyl, cycloalkylene, halo, heterobicycloalkyl, heterocycloalkylene, heteroaryl, heterobicycloaryl, heterocycloalkyl, hydroxy, nitro, oxaalkyl, and oxoalkyl moieties, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones; and

each R₁₂ is hydrogen or is independently selected from the group consisting of halo, perhalo(C₁₋₁₀)alkyl, CF₃, alkyl, aryl, heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryloxy, heteroaryloxy, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, amino, thio, cyano, nitro, alkoxy, ~~a earbenyl group,~~ imine group, sulfonyl group and sulfinyl group, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones, each being unsubstituted or substituted with one or more substituents selected from the group consisting of ~~ahieyelie-, aliphatic-,~~ alkyl, heteroalkyl, alkylene, alkylidene, amino, aminoalkyl, aromatic, aryl, bicycloalkyl, bicycloaryl, carbamoyl, carbocyclyl, carboxyl, ~~earbenyl group,~~ cycloalkyl, cycloalkylene, halo, heterobicycloalkyl, heterocycloalkylene, heteroaryl, heterobicycloaryl, heterocycloalkyl, hydroxy, -, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones.

39-51. (cancelled)

52. (original) A compound according to claim 38, wherein K is CR₁₂, where R₁₂ is independently selected from the group consisting of halo, perhalo(C₁₋₁₀)alkyl, CF₃, cyano, nitro, alkyl, aryloxy, heteroaryloxy, amino, and alkoxy, each substituted or unsubstituted.

53. (currently amended) A compound according to claim 38, wherein K is CR₁₂, where R₁₂ is independently selected from the group consisting of heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryl, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, thio, ~~a carbonyl group~~, imine group, sulfonyl group and sulfinyl group, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones, each substituted or unsubstituted.

54. (original) A compound according to claim 38, wherein K is CR₁₂, where R₁₂ is independently selected from the group consisting of chloro, bromo, fluoro, iodo, methoxy, morpholin-4-yl, and pyrrolidin-1-yl, each substituted or unsubstituted.

55. (cancelled)

56. (original) A compound according to claim 38, wherein L is CR₁₂, where R₁₂ is independently selected from the group consisting of halo, perhalo(C₁₋₁₀)alkyl, CF₃, cyano, nitro, alkyl, aryloxy, heteroaryloxy, amino, morpholin-4-yl, and pyrrolidin-1-yl, and alkoxy, each substituted or unsubstituted.

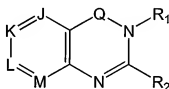
57-110. (cancelled)

111. (previously presented) A compound selected from the group consisting of:
2-[2-(3-Amino-piperidin-1-yl)-4-oxo-4H-quinazolin-3-ylmethyl]-benzonitrile;
2-[2-(3-Amino-piperidin-1-yl)-6,7-dimethoxy-4-oxo-4H-quinazolin-3-ylmethyl]-benzonitrile;
2-[2-(3-Amino-piperidin-1-yl)-8-methoxy-4-oxo-4H-quinazolin-3-ylmethyl]-benzonitrile;
2-[2-(3-Amino-piperidin-1-yl)-7-chloro-4-oxo-4H-quinazolin-3-ylmethyl]-benzonitrile;

2-[2-(3-Amino-piperidin-1-yl)-8-chloro-4-oxo-4*H*-quinazolin-3-ylmethyl]-benzonitrile;
2-[2-(3-Amino-piperidin-1-yl)-6-fluoro-4-oxo-4*H*-quinazolin-3-ylmethyl]-benzonitrile;
2-[2-(3-(*R*)-Amino-piperidin-1-yl)-6-chloro-4-oxo-4*H*-quinazolin-3-ylmethyl]-
benzonitrile;
2-[2-(3-(*R*)-Amino-piperidin-1-yl)-7-fluoro-6-methoxy-4-oxo-4*H*-quinazolin-3-ylmethyl]-
benzonitrile;
2-[2-(3-(*R*)-Amino-piperidin-1-yl)-5-fluoro-4-oxo-4*H*-quinazolin-3-ylmethyl]-
benzonitrile;
2-[(*R*)-3-Amino-piperidin-1-yl]-6-fluoro-3-(2-trifluoromethyl-benzyl)-3*H*-quinazolin-4-
one;
2-[2-(3-(*R*)-Amino-piperidin-1-yl)-6-bromo-4-oxo-4*H*-quinazolin-3-ylmethyl]-
benzonitrile;
2-[2-(3-(*R*)-Amino-piperidin-1-yl)-6-bromo-4-oxo-4*H*-quinazolin-3-ylmethyl]-
benzonitrile;
2-[2-(3-(*R*)-Amino-pyrrolidin-1-yl)-6-bromo-4-oxo-4*H*-quinazolin-3-ylmethyl]-
benzonitrile;
2-[2-(3-(*R*)-Amino-piperidin-1-yl)-6,8-dichloro-4-oxo-4*H*-quinazolin-3-ylmethyl]-
benzonitrile;
2-[2-(3-(*R*)-Amino-piperidin-1-yl)-6-methoxy-4-oxo-4*H*-quinazolin-3-ylmethyl]-
benzonitrile;
2-[2-(3-(*R*)-Amino-piperidin-1-yl)-6-fluoro-4-oxo-4*H*-quinazolin-3-ylmethyl]-
benzamide;
2-[2-(3-(*R*)-Amino-piperidin-1-yl)-6-fluoro-7-morpholin-4-yl-4-oxo-4*H*-quinazolin-3-
ylmethyl]-benzonitrile;
2-[2-(3-Amino-piperidin-1-yl)-6-fluoro-4-oxo-4*H*-quinazolin-3-ylmethyl]-benzamide;
2-(3-(*R*)-Amino-piperidin-1-yl)-6-fluoro-3-(2-trifluoromethyl-benzyl)-3*H*-quinazolin-4-
one;
2-(3-Amino-piperidin-1-yl)-6,7-dimethoxy-3-(2-nitro-benzyl)-3*H*-quinazolin-4-one;
2-[2-(3-Amino-piperidin-1-yl)-6,7-dimethoxy-4-oxo-4*H*-quinazolin-3-ylmethyl]-benzoic
acid ethyl ester;

2-[2-(3-Amino-piperidin-1-yl)-6-fluoro-4-oxo-4H-quinazolin-3-ylmethyl]-benzoic acid ethyl ester;
2-[2-(3-Amino-piperidin-1-yl)-6,7-dimethoxy-4-oxo-4H-quinazolin-3-ylmethyl]-benzoic acid;
2-[2-(3-Amino-piperidin-1-yl)-6-fluoro-4-oxo-4H-quinazolin-3-ylmethyl]-benzoic acid;
and
2-(6,7-Dimethoxy-4-oxo-2-piperidin-1-yl-4H-quinazolin-3-ylmethyl)-benzonitrile.

112. (currently amended) A compound comprising Formula XI:



XI

wherein

Q is selected from the group consisting of CO, CS or C=NR₉;

J, K, L, and M are each independently CR₁₂, provided that at least one of K and L is CR₁₂

where R₁₂ is not hydrogen;

R₁ is -ZR_m;

Z is selected from the group consisting of -CH₂-, -CH₂CH₂-, -CH₂CH₂CH₂-, -C(O)-, -CH₂C(O)-, -C(O)CH₂-, -CH₂-C(O)CH₂-, -C(O)CH₂CH₂-, -CH₂CH₂C(O)-, -O-, -OCH₂-, -CH₂O-, -CH₂OCH₂-, -OCH₂CH₂-, -CH₂CH₂O-, -N(CH₃)-, -NHCH₂-, -CH₂NH-, -CH₂NHCH₂-, -NHCH₂CH₂-, -CH₂CH₂NH-, -NH-C(O)-, -NCH₃-C(O)-, -C(O)NH-, -C(O)NCH₃-, -NHC(O)CH₂-, -C(O)NHCH₂-, -C(O)CH₂NH-, -CH₂NHC(O)-, -CH₂C(O)NH-, -NHCH₂C(O)-, -S-, -SCH₂-, -CH₂S-, -SCH₂CH₂-, -CH₂SCH₂-, -CH₂CH₂S-, -C(O)S-, -C(O)SCH₂-, -CH₂C(O)S-, -C(O)CH₂S-, -CH₂SC(O)-, -CHR₉-, -C(R₉)(R₉)-, -C(S)-, -C(NH)-, -C(NR₉)-, -N(H)- and -N(R₉)-;

R_m is selected from the group consisting of a (C₃₋₇)cycloalkyl, aryl, hetero(C₃₋₇)cycloalkyl and heteroaryl, each being unsubstituted or substituted with one or more substituents selected from the group consisting of (C₁₋₁₀)alkyl, (C₃₋₁₂)cycloalkyl, hetero(C₃₋₁₂)cycloalkyl, aryl(C₁-

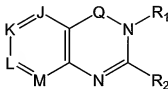
~~₁₀~~alkyl, heteroaryl(C₁₋₅)alkyl, (C₉₋₁₂)bicycloaryl, hetero(C₄₋₁₂)bicycloaryl, carbonyl (C₁₋₃)alkyl, thiocarbonyl (C₁₋₃)alkyl, sulfonyl (C₁₋₃)alkyl, sulfinyl (C₁₋₃)alkyl, imino (C₁₋₃)alkyl, amino, aryl, heteroaryl, hydroxy, alkoxy, aryloxy, heteroaryloxy, ~~carbonyl~~, cyano, nitro, halo, imino, sulfonyl and sulfinyl groups, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones;

R₂ is selected from the group consisting of a 4, 5, 6 or 7 membered cycloalkyl or N-containing ring, the ring being substituted with one or more substituents selected from the group consisting of ~~ahetero~~~~ie~~, ~~aliphatic~~, alkyl, heteroalkyl, alkylene, alkylidene, amino, aminoalkyl, aromatic, aryl, bicycloalkyl, bicycloaryl, carbamoyl, carbocyclyl, carboxyl, ~~carbonyl group~~, cycloalkyl, cycloalkylene, halo, heterobicycloalkyl, heterocycloalkylene, heteroaryl, heterobicycloaryl, heterocycloalkyl, hydroxy, nitro, oxaalkyl, and oxaalkyl moieties, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones;

each R₉ is hydrogen or is selected from the group consisting of alkyl, cycloalkyl, heterocycloalkyl, arylalkyl, heteroarylalkyl, bicycloaryl, and heterobicycloaryl, each being unsubstituted or substituted with one or more substituents selected from the group consisting of ~~ahetero~~~~ie~~, ~~aliphatic~~, alkyl, heteroalkyl, alkylene, alkylidene, amino, aminoalkyl, aromatic, aryl, bicycloalkyl, bicycloaryl, carbamoyl, carbocyclyl, carboxyl, ~~carbonyl group~~, cycloalkyl, cycloalkylene, halo, heterobicycloalkyl, heterocycloalkylene, heteroaryl, heterobicycloaryl, heterocycloalkyl, hydroxy, nitro, oxaalkyl, and oxaalkyl moieties, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones; and

each R₁₂ is hydrogen or is independently selected from the group consisting of halo, perhalo(C₁₋₁₀)alkyl, CF₃, alkyl, aryl, heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryloxy, heteroaryloxy, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, amino, thio, cyano, nitro, alkoxy, ~~a carbonyl group~~, imine group, sulfonyl group and sulfinyl group, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones, each being unsubstituted or substituted with one or more substituents selected from the group consisting of ~~ahetero~~~~ie~~, ~~aliphatic~~, alkyl, heteroalkyl, alkylene, alkylidene, amino, aminoalkyl, aromatic, aryl, bicycloalkyl, bicycloaryl, carbamoyl, carbocyclyl, carboxyl, ~~carbonyl group~~, cycloalkyl, cycloalkylene, halo, heterobicycloalkyl, heterocycloalkylene, heteroaryl, heterobicycloaryl, heterocycloalkyl, hydroxy, nitro, oxaalkyl, and oxaalkyl moieties, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones.

113. (currently amended) A compound comprising Formula XI:



XI

wherein

Q is selected from the group consisting of CO, CS or C=NR₉;

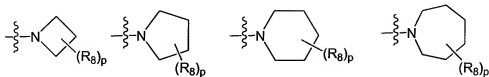
J, K, L, and M are each independently CR₁₂;

R₁ is -ZR_m;

Z is selected from the group consisting of -CH₂-, -CH₂CH₂-, -CH₂CH₂CH₂-, -C(O)-, -CH₂C(O)-, -C(O)CH₂-, -CH₂-C(O)CH₂-, -C(O)CH₂CH₂-, -CH₂CH₂C(O)-, -O-, -OCH₂-, -CH₂O-, -CH₂OCH₂-, -OCH₂CH₂-, -CH₂CH₂O-, -N(CH₃)-, -NHCH₂-, -CH₂NH-, -CH₂NHCH₂-, -NHCH₂CH₂-, -CH₂CH₂NH-, -NH-C(O)-, -NCH₃-C(O)-, -C(O)NH-, -C(O)NCH₃-, -NHC(O)CH₂-, -C(O)NHCH₂-, -C(O)CH₂NH-, -CH₂NHC(O)-, -CH₂C(O)NH-, -NHCH₂C(O)-, -S-, -SCH₂-, -CH₂S-, -SCH₂CH₂-, -CH₂SCH₂-, -CH₂CH₂S-, -C(O)S-, -C(O)SCH₂-, -CH₂C(O)S-, -C(O)CH₂S-, -CH₂SC(O)-, -CHR₉-, -C(R₉)(R₉)-, -C(S)-, -C(NH)-, -C(NR₉)-, -N(H)- and -N(R₉)-

R_m is selected from the group consisting of a (C₃₋₇)cycloalkyl, aryl, hetero(C₃₋₇)cycloalkyl and heteroaryl, each being unsubstituted or substituted with one or more substituents selected from the group consisting of (C₁₋₁₀)alkyl, (C₃₋₁₂)cycloalkyl, hetero(C₃₋₁₂)cycloalkyl, aryl(C₁₋₁₀)alkyl, heteroaryl(C₁₋₅)alkyl, (C₉₋₁₂)bicycloaryl, hetero(C₄₋₁₂)bicycloaryl, carbonyl (C₁₋₃)alkyl, thiocarbonyl (C₁₋₃)alkyl, sulfonyl (C₁₋₃)alkyl, sulfinyl (C₁₋₃)alkyl, imino (C₁₋₃)alkyl, amino, aryl, heteroaryl, hydroxy, alkoxy, aryloxy, heteroaryloxy, ~~carbonyl~~-cyano, nitro, halo, imino, sulfonyl and sulfinyl groups, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones;

R₂ is selected from the group consisting of

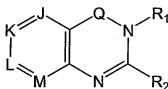


wherein p is 0-12 and each R_8 is independently selected from the group consisting of halo, perhalo(C_{1-10})alkyl, CF_3 , cyano, nitro, hydroxy, alkyl, aryl, heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryloxy, heteroaryloxy, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, amino, thio, alkoxy, ~~carbonyl group~~, imino group, sulfonyl group and sulfinyl group, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones, each substituted or unsubstituted, provided that at least one R_8 is a primary, secondary or tertiary amine;

each R_9 is hydrogen or is selected from the group consisting of alkyl, cycloalkyl, heterocycloalkyl, arylalkyl, heteroarylalkyl, bicycloalkyl, and heterobicycloalkyl, each being unsubstituted or substituted with one or more substituents selected from the group consisting of ~~arylelie, aliphatic~~, alkyl, heteroalkyl, alkylene, alkylidene, amino, aminoalkyl, aromatic, aryl, bicycloalkyl, bicycloalkyl, carbamoyl, carbocyclyl, carboxyl, ~~carbonyl group~~, cycloalkyl, cycloalkylene, halo, heterobicycloalkyl, heterocycloalkylene, heteroaryl, heterobicycloalkyl, heterocycloalkyl, hydroxy, nitro, oxaalkyl, and oxaalkyl moieties, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones; and

each R_{12} is hydrogen or is independently selected from the group consisting of halo, perhalo(C_{1-10})alkyl, CF_3 , alkyl, aryl, heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryloxy, heteroaryloxy, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, amino, thio, cyano, nitro, alkoxy, ~~a carbonyl group~~, imine group, sulfonyl group and sulfinyl group, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones, each being unsubstituted or substituted with one or more substituents selected from the group consisting of ~~arylelie, aliphatic~~, alkyl, heteroalkyl, alkylene, alkylidene, amino, aminoalkyl, aromatic, aryl, bicycloalkyl, bicycloalkyl, carbamoyl, carbocyclyl, carboxyl, ~~carbonyl group~~, cycloalkyl, cycloalkylene, halo, heterobicycloalkyl, heterocycloalkylene, heteroaryl, heterobicycloalkyl, heterocycloalkyl, hydroxy, nitro, oxaalkyl, and oxaalkyl moieties, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones.

114. (currently amended) A compound comprising Formula XI:



XI

wherein

Q is selected from the group consisting of CO, CS or C=NR₉;

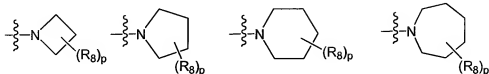
J, K, L, and M are each independently CR₁₂;

R₁ is -ZR_m;

Z is selected from the group consisting of -CH₂-, -CH₂CH₂-, -CH₂CH₂CH₂-, -C(O)-, -CH₂C(O)-, -C(O)CH₂-, -CH₂-C(O)CH₂-, -C(O)CH₂CH₂-, -CH₂CH₂C(O)-, -O-, -OCH₂-, -CH₂O-, -CH₂OCH₂-, -OCH₂CH₂-, -CH₂CH₂O-, -N(CH₃)-, -NHCH₂-, -CH₂NH-, -CH₂NHCH₂-, -NHCH₂CH₂-, -CH₂CH₂NH-, -NH-C(O)-, -NCH₃-C(O)-, -C(O)NH-, -C(O)NCH₃-, -NHC(O)CH₂-, -C(O)NHCH₂-, -C(O)CH₂NH-, -CH₂NHC(O)-, -CH₂C(O)NH-, -NHCH₂C(O)-, -S-, -SCH₂-, -CH₂S-, -SCH₂CH₂-, -CH₂SCH₂-, -CH₂CH₂S-, -C(O)S-, -C(O)SCH₂-, -CH₂C(O)S-, -C(O)CH₂S-, -CH₂SC(O)-, -CHR₉-, -C(R₉)(R₉)-, -C(S)-, -C(NH)-, -C(NR₉)-, -N(H)- and -N(R₉)-

R_m is selected from the group consisting of a (C₃₋₇)cycloalkyl, aryl, hetero(C₃₋₇)cycloalkyl and heteroaryl, each having at least one non-hydrogen substituent at a 2 or 3 position of the ring selected from the group consisting of (C₁₋₁₀)alkyl, (C₃₋₁₂)cycloalkyl, hetero(C₃₋₁₂)cycloalkyl, aryl(C₁₋₁₀)alkyl, heteroaryl(C₁₋₅)alkyl, (C₉₋₁₂)bicycloaryl, hetero(C₄₋₁₂)bicycloaryl, carbonyl (C₁₋₃)alkyl, thiocarbonyl (C₁₋₃)alkyl, sulfonyl (C₁₋₃)alkyl, sulfinyl (C₁₋₃)alkyl, imino (C₁₋₃)alkyl, amino, aryl, heteroaryl, hydroxy, alkoxy, aryloxy, heteroaryloxy, ~~carbonyl group~~, cyano, nitro, halo, imino group, sulfonyl group and sulfinyl group, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones;

R₂ is selected from the group consisting of



wherein p is 0-12 and each R_8 is independently selected from the group consisting of halo, perhalo(C_{1-10})alkyl, CF_3 , cyano, nitro, hydroxy, alkyl, aryl, heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryloxy, heteroaryloxy, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, amino, thio, alkoxy, ~~carbonyl group~~, imino group, sulfonyl group and sulfinyl group, each substituted or unsubstituted, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones, provided that at least one R_8 is a primary, secondary or tertiary amine;

each R_9 is hydrogen or is selected from the group consisting of alkyl, cycloalkyl, heterocycloalkyl, arylalkyl, heteroarylalkyl, bicycloalkyl, and heterobicycloalkyl, each being unsubstituted or substituted with one or more substituents selected from the group consisting of ~~alicyclic, aliphatic~~, alkyl, heteroalkyl, alkylene, alkylidene, amino, aminoalkyl, aromatic, aryl, bicycloalkyl, bicycloalkyl, carbamoyl, carbocyclyl, carboxyl, ~~carbonyl group~~, cycloalkyl, cycloalkylene, halo, heterobicycloalkyl, heterocycloalkylene, heteroaryl, heterobicycloalkyl, heterocycloalkyl, hydroxy, nitro, oxaalkyl, and oxoalkyl moieties, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones; and

each R_{12} is hydrogen or is independently selected from the group consisting of halo, perhalo(C_{1-10})alkyl, CF_3 , alkyl, aryl, heteroaryl, aminosulfonyl, alkylsulfonyl, arylsulfonyl, heteroarylsulfonyl, aryloxy, heteroaryloxy, arylalkyl, heteroarylalkyl, cycloalkyl, heterocycloalkyl, amino, thio, cyano, nitro, alkoxy, ~~a carbonyl group~~, imine group, sulfonyl group and sulfinyl group, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones, each being unsubstituted or substituted with one or more substituents selected from the group consisting of ~~alicyclic, aliphatic~~, alkyl, heteroalkyl, alkylene, alkylidene, amino, aminoalkyl, aromatic, aryl, bicycloalkyl, bicycloalkyl, carbamoyl, carbocyclyl, carboxyl, ~~carbonyl group~~, cycloalkyl, cycloalkylene, halo, heterobicycloalkyl, heterocycloalkylene, heteroaryl, heterobicycloalkyl, heterocycloalkyl, hydroxy, nitro, oxaalkyl, and oxoalkyl moieties, and monovalent radicals derived from aldehydes, amides, esters, iminoketones and ketones.